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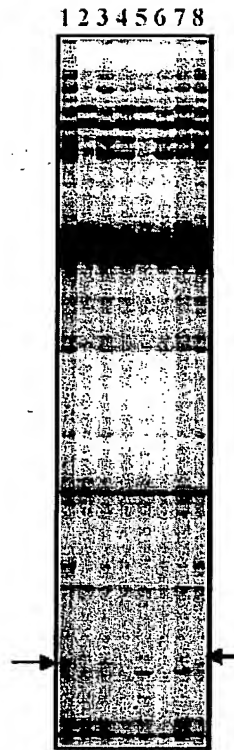


FIG.1

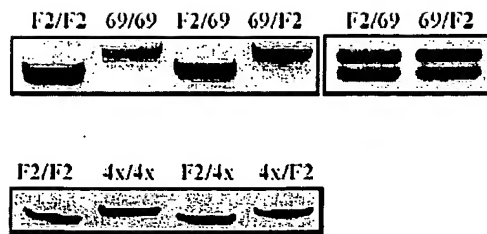


FIG.2

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Mcg1.3 -----ALUFTSLL
 Mcg1.2 -----ALUFTSLL
 Mcg1.4 -----ALUFTSLL
 Mcg1.6 -----DUSUSTP-
 Mcg1.1 -----ALUFTSLL
 Mcg1.5 HGYGGRPEPLPPDASSTLYIEGLPANCTHDEUSHIIRPFUGFREURLUMKEENHPGGDPHVLCVVDIDWP

Mcg1.3 SSDLLEEMER-----USATALE-GD---UGTPPG
 Mcg1.2 LLGYTAAHAGCK-----ATGIMQENGARGUUGTPPG
 Mcg1.4 LLGYTAAHAGCKGHTDDUGUSTPAPGIMQENGARGUUGTPPG
 Mcg1.6 LLGYTAAHAGCKGHTDDUUTUSAPALGIMQENGARGUUGTPPG
 Mcg1.1 LLGYTAAHAGCKGHTDDUUTUSAPALGILREKRAQCAQGTLP
 Mcg1.5 AQTIALEALQC-HVTDDUUTUSAPALGILREKRAQCAQGTLP

▲ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

FIG.3

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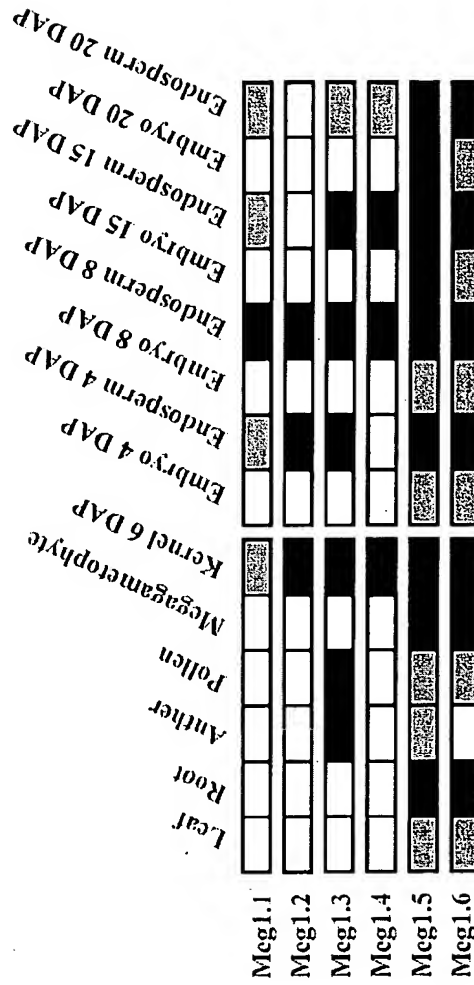


FIG.4

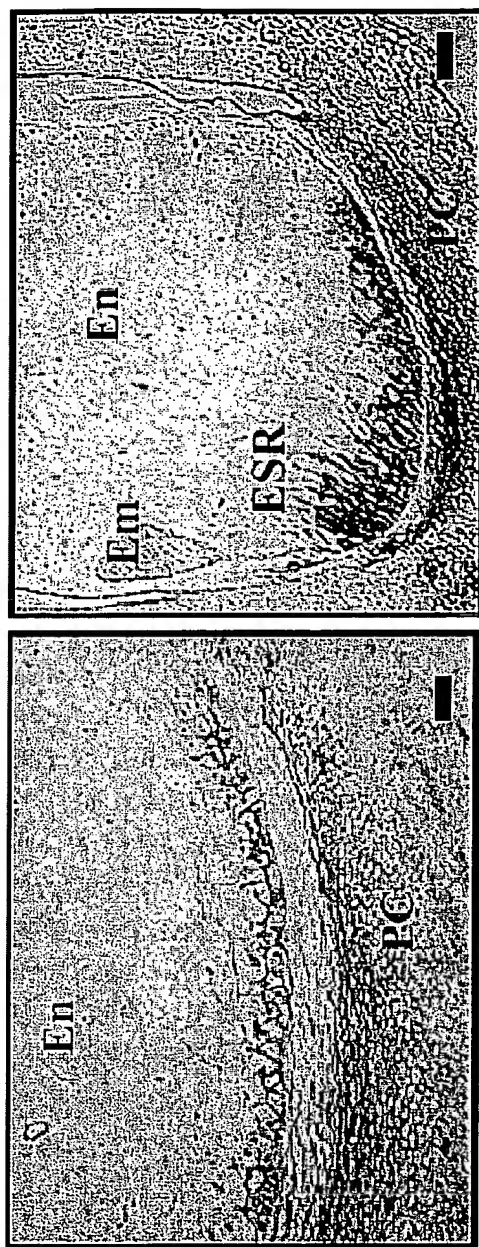


FIG.5

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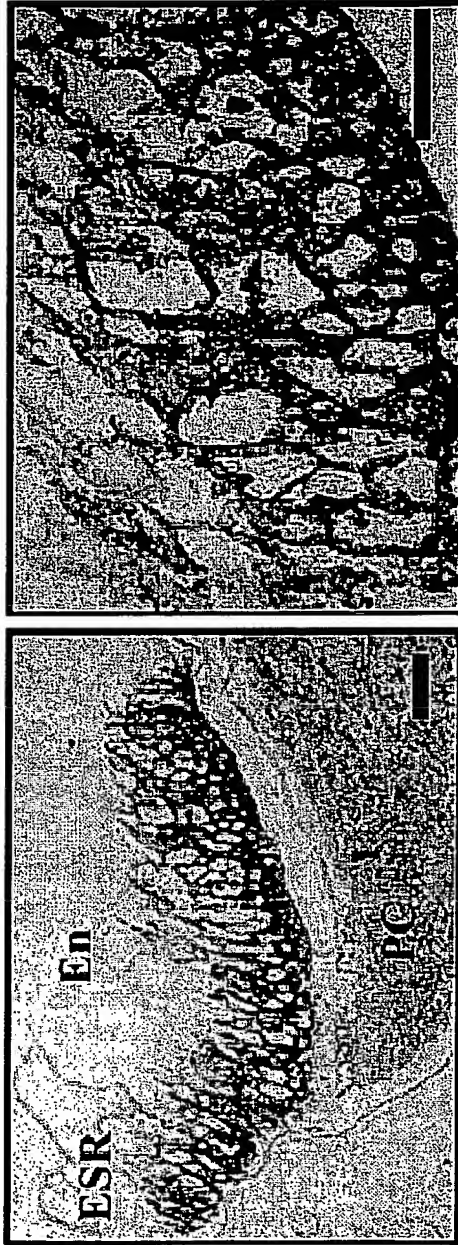
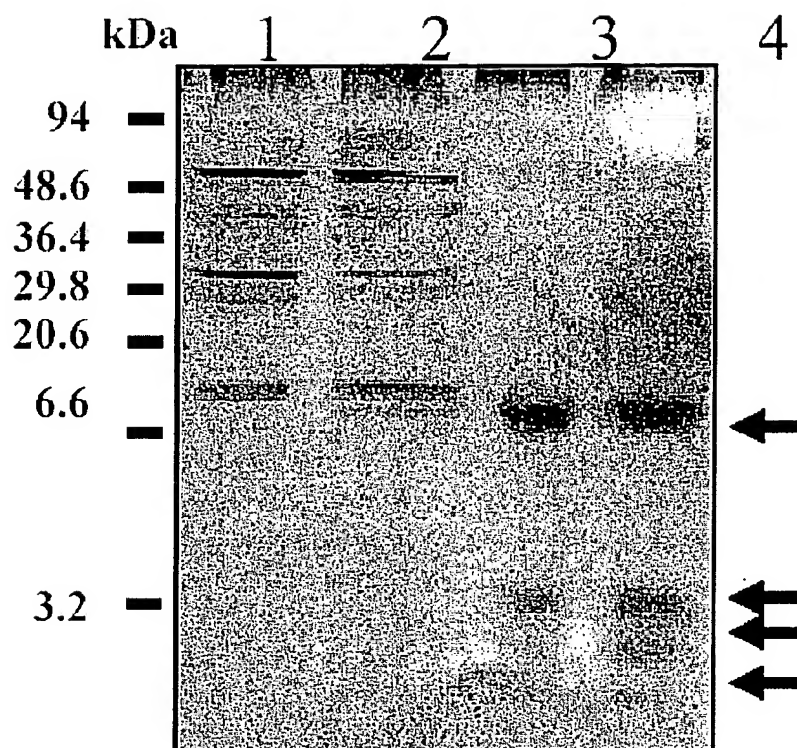


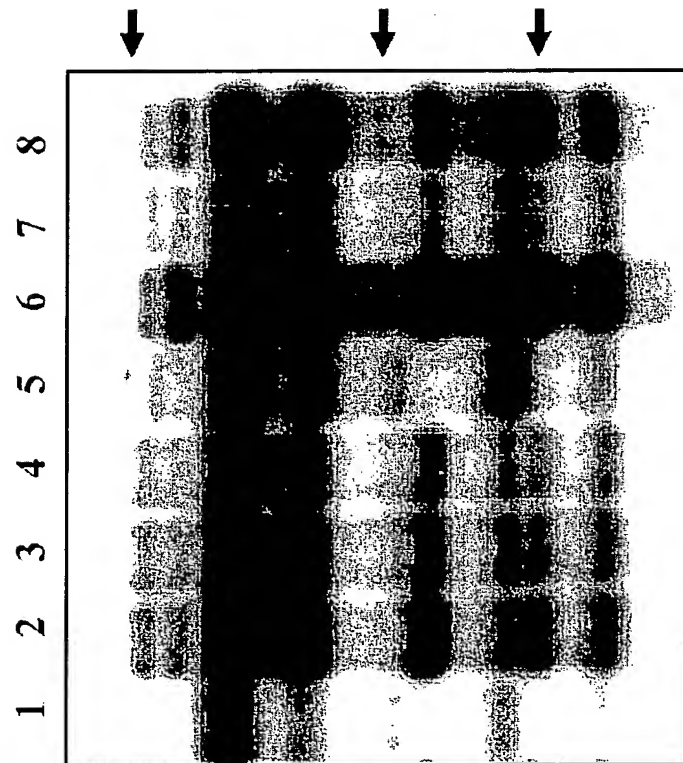
FIG.6

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FIG.7

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FIG. 8

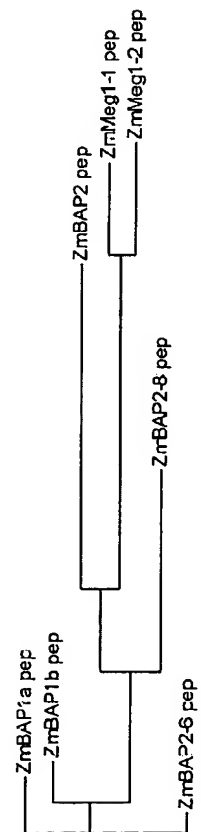


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1 50
 ZmBA2-1a pep (1) MAKFFNYTITQGLTLLSMVFLASCVTHAHHIISGETEEVSNTGSPVVMVTM
 ZmBA2-1b pep (1) -----GLSMVFLASCVTHAHHIISGEIEVSNTSP-----TMM
 ZmBA2-2 pep (1) --MAKCSSEFQGLFWLGLSMVFLASCVTHAHHIISGQTKEDSNARNMTMTKTR
 ZmBA2-6 pep (1) MAKFFNYTITQGLTLLSMVFLASCVTHAHHIISGETEEVSNTGSPVVMVTM
 ZmBA2-8 pep (1) MARCLKSCSVHGLWFLSMVFLASCVTHAHHIINGR--QSNLTGSLT-MTTT
 ZmMeg1-1 pep (1) ---MEYKKRVVLLMFFSLITLGYFAAHAHGNGHVT-DDVNVSPAEEGIL
 ZmMeg1-2 pep (1) ---MEYRKRVDAIVFFSLITLGYFAAHAHGNGHVT-DDVGVSFAKEGIM
 Consensus (1) V GLTLLSMVLLASCVTHAHHIISG T D SN SPT TM

51 97
 ZmBA2-1a pep (51) GANRKIIEDNKNLTCYLRA--LEYCCARLRQCDDDDIKKQLEHGRG--
 ZmBA2-1b pep (34) GANRKIIEDNKNLTCYLKA--LEYCCERKQDDDDIKKQLEHGRS--
 ZmBA2-2 pep (49) GAGNIIVSRNDDGPCYLDGLNEYVCRKNKCKSKSVLQVASSQPPSS
 ZmBA2-6 pep (51) GANRKIIEDNKNLTCYLKA--LEYCCERKQDDDDIKKQLEHGRG--
 ZmBA2-8 pep (47) GEASMIIGDEKDAITCYTKA--ALYCCKRIQCQDIAQQLRNQRKNV
 ZmMeg1-1 pep (47) REKRAQCAQGFDPCKDNKC--YCCIGGRTHDCYTMQQSSHAGF---
 ZmMeg1-2 pep (47) QNGARCVCVGFPPCKDNKC--YCCIGGRTHARSTMAEGRHAGF---
 Consensus (51) GANR IIGDNK LCYLKA EYCC RI QCY DI CL C

FIG.9



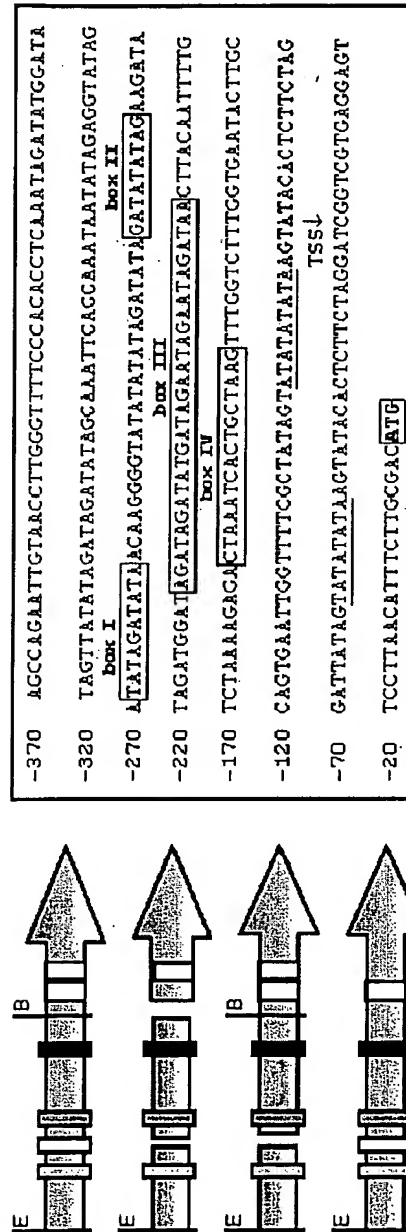


FIG. 10

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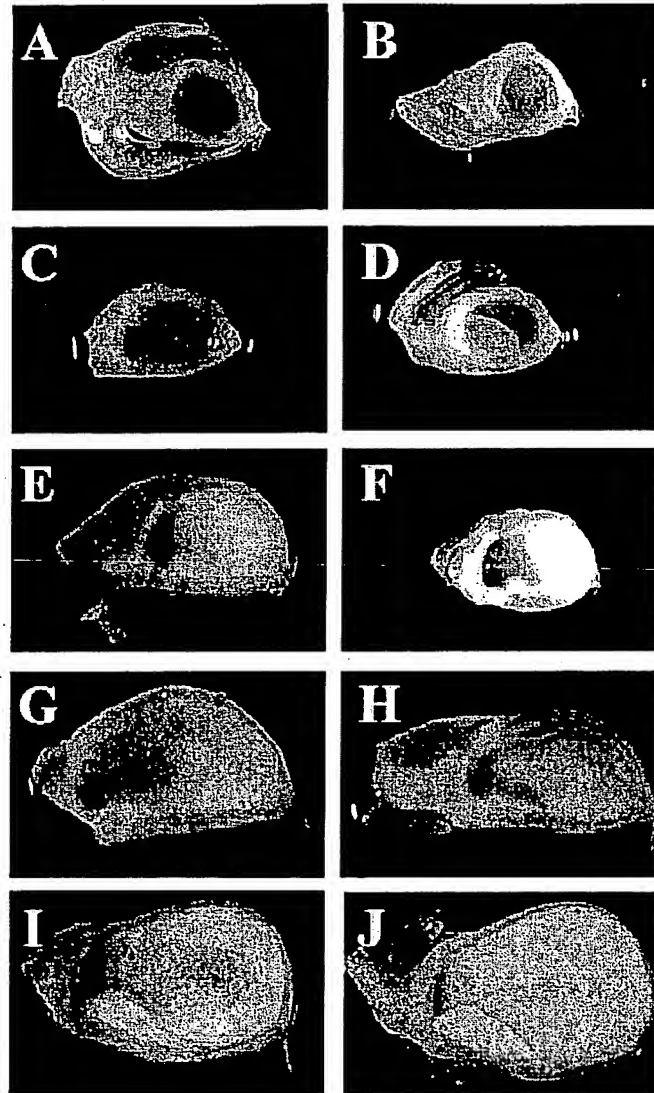
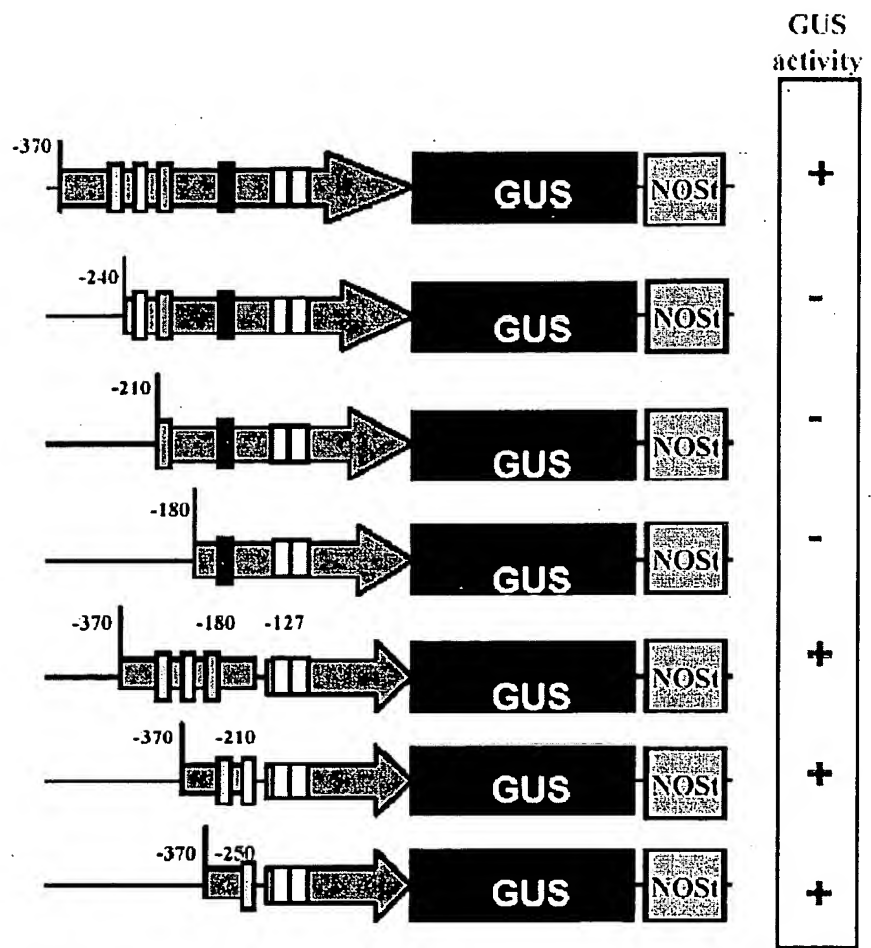


FIG.11

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FIG.12

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Maternally inherited
transgene = big endosperm,
poor germination

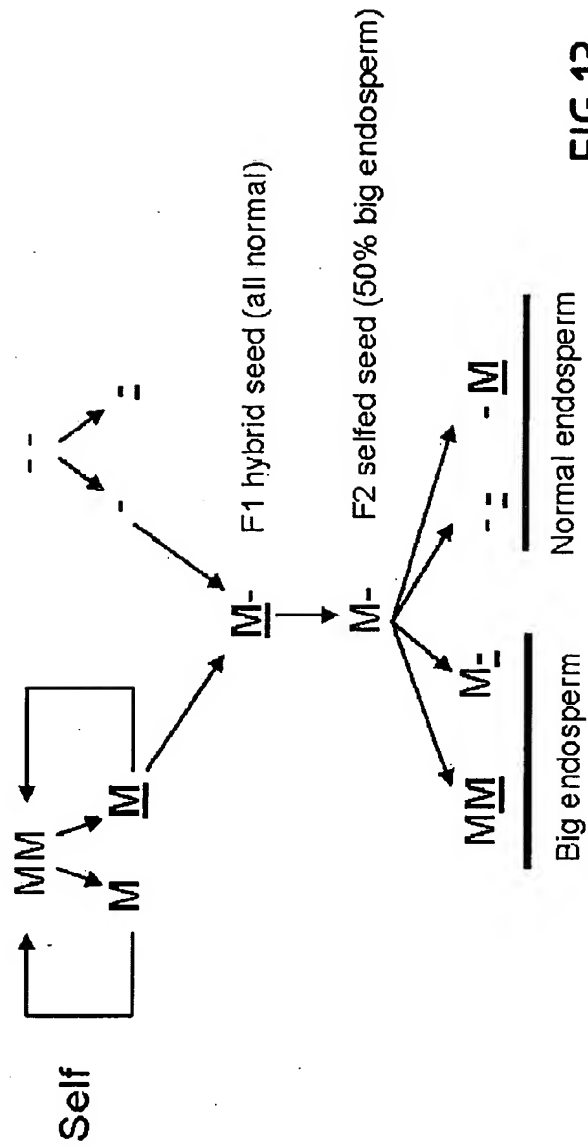


FIG.13

Meg 3
Meg 2
Meg 1